


Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (use as many sheets as necessary)			COMPLETE IF KNOWN		
Application Number			09/937,499		
Filing Date			February 7, 2002		
First Named Inventor			Konstantin Petrukhin		
Group Art Unit			1646		
Examiner Name					
Sheet	1	of	4	Attorney Docket Number	20430P

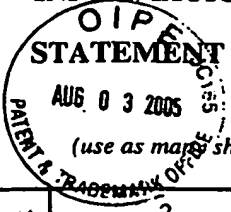
[illegible][illegible]

Examiner Signature	/Amy Juedes/	Date Considered	08/09/2006
-----------------------	--------------	--------------------	------------

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

SEND TO: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.

Computer generated form * IDS Form* (IDS Folder), Merck & Co., Inc., -7/12/2005

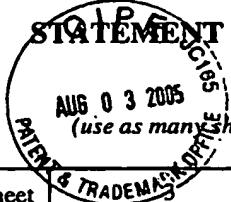
Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (use as many sheets as necessary)		COMPLETE IF KNOWN	
Application Number		09/937,499	
Filing Date		February 7, 2002	
First Named Inventor		Konstantin Petrukhin	
Group Art Unit		1646	
Examiner Name			
Sheet	2	of	4
Attorney Docket Number		20430P	

NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No.	Include name of the author, title, date, page(s), volume-issue number(s) and place of publication.
AJ	B	Brian Robertson, "The real life of voltage-gated K ⁺ channels: more than model behaviour", Trends in Pharmacol. Sci., 18:474-483 (December 1997)
	C	Jan & Jan, "Voltage-gated and inwardly rectifying potassium channels", J. Physiology, 505.2:267-282 (1997)
	D	Catterall, A. W., "Structure & Function of Voltage-Gated Ion Channels, Annual Rev. Biochem., 64:493-531 (1995)
	E	Sullivan & Daiger, "Inherited retinal degeneration: exceptional genetic and clinical heterogeneity", Mol. Med. Today, 2:380-386 (September 1996)
	F	Evans et al., "Genetic linkage of cone-rod retinal dystrophy to chromosome 19q and evidence for segregation distortion", Nature Genetics, 6:210-213 (February 1994)
	G	Kelsell et al., "Localisation of a gene for dominant cone-rod dystrophy (CORD6) to chromosome 17P", Human Molecular Genetics, 6:597-600 (1997)
	H	Kelsell et al., "Localization of a Gene (CORD7) for a Dominant Cone-Rod Dystrophy to Chromosome 6q", Am. J. Hum. Genet., 63:274-279 (1998)
	I	Stone et al., "Clinical Features of a Stargardt-Like Dominant Progressive Macular Dystrophy With Genetic Linkage to Chromosome 6q", Arch Ophthalmol., 112:765-772 (June 1994)
	J	Nichols et al., "Butterfly-shaped pigment dystrophy of the fovea caused by a point mutation in codon 167 of the RDS gene", Nature, 3:202-207 (March 1993)
	K	Weleber et al., "Phenotypic Variation Including Retinitis Pigmentosa, Pattern Dystrophy, and Fundus Flavimaculatus in a Single Family With a Deletion of Codon 153 or 154 of the Peripherin/RDS Gene, Arch Ophthalmol., 111:1531-1542 (November 1993)
	L	Wells et al., "Mutations in the human retinal degeneration slow (RDS) gene can cause either retinitis pigmentosa or macular dystrophy", Nature Genet., 3:213-218 (March 1993)
	M	Reig et al., "A point mutation in the RDS-peripherin gene in a Spanish family with central areolar choroidal dystrophy", Ophthalmic Genetics, 16:39-44 (1995)
	N	Hyman et al., "Senile Macular Degeneration: A Case-Control Study", Am. J. Epidemiology, 118:213-227 (1983)
	O	J. Donald M. Gass, "Drusen and Disciform Macular Detachment and Degeneration", Arch Ophthalmol., 90:206-217 (September 1973)
AJ	P	Leppanen et al., "A Physical Map of the 6q14-q15 Region Harboring the Locus for the Lysosomal Membrane Sialic Acid Transport Defect", Genomics, 37:62-67 (1996)

Examiner Signature	/Amy Juedes/	Date Considered	08/09/2006
--------------------	--------------	-----------------	------------

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

SEND TO: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450. Computer generated form "IDS Form" (IDS Folder), Merck & Co., Inc., 7/12/2005

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT 		COMPLETE IF KNOWN	
		Application Number	09/937,499
		Filing Date	February 7, 2002
		First Named Inventor	Konstantin Petrukhin
		Group Art Unit	1646
		Examiner Name	
Sheet	of	4	Attorney Docket Number 20430P

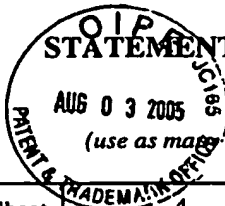
NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No.	Include name of the author, title, date, page(s), volume-issue number(s) and place of publication.
AJ	Q	Biervert et al., "A Potassium Channel Mutation in Neonatal Human Epilepsy", Science, 279:403-406 (January 1998)
	R	Singh et al., "A novel potassium channel gene, <i>KCNQ2</i> , is mutated in an inherited epilepsy of newborns", Nature Genetics, 18:25-29 (January 1998)
	S	Schroeder et al., "Moderate loss of function of cyclic-AMP-modulated <i>KCNQ2/KCNQ3</i> K ⁺ channels causes epilepsy", Nature, 396:687-690 (December 1998)
	T	Kubisch et al., " <i>KCNQ4</i> , a Novel Potassium Channel Expressed in Sensory Outer Hair Cells, Is Mutated in Dominant Deafness", Cell, 96: 437-446 (February 1999)
	U	Splawski et al., "Molecular Basis of the Long-QT Syndrome Associated with Deafness", New England J. Medicine, 336:1562-1567 (May 1997)
	V	Wang et al., " <i>KCNQ2</i> and <i>KCNQ3</i> Potassium Channel Subunits: Molecular Correlates of the M-Channel", Science, 282:1890-1893 (December 1998)
	W	Shi et al., "β Subunits Promote K ⁺ Channel Surface Expression through Effects Early in Biosynthesis", Neuron, 16:843-852 (April 1996)
	X	Watson et al., "Molecular Biology of the Gene", Fourth Edition, The Benjamin/Cummings Publishing Co., Inc., page 226 (1987)
	Y	Cunningham and Wells, "High-Resolution Epitope Mapping of hGH-Receptor Interactions by Alanine-Scanning Mutagenesis", Science, 244:1081-1085 (June 1989)
	Z	Ioannou et al., "A new bacteriophage P1-derived vector for the propagation of large human DNA fragments", Nature Genetics, 6:84-89 (January 1994)
	AA	Gonzalez and Tsien, "Improved indicators of cell membrane potential that use fluorescence resonance energy transfer", Chemistry & Biology, 4:269-277 (1997)
	BB	Gonzalez and Tsien, "Voltage Sensing by Fluorescence Resonance Energy Transfer in Single Cells", Biophysical Journal, 69:1272-1280 (October 1995)
	CC	John Hodgson, "Receptor Screening and the Search for New Pharmaceuticals", Bio/Technology, 10:973-980 (September 1992)
AJ	DD	Hopp and Woods, "Prediction of protein antigenic determinants from amino acid sequences", Proc. Natl. Acad. Sci. USA, 78:3824-3828 (June 1981)

Examiner Signature	/Amy Juedes/	Date Considered	08/09/2006
--------------------	--------------	-----------------	------------

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

SEND TO: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.

Computer generated form "IDS Form" (IDS Folder), Merck & Co., Inc., -7/12/2005

Substitute for form 1449B/PTO		COMPLETE IF KNOWN	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT 		Application Number	09/937,499
		Filing Date	February 7, 2002
		First Named Inventor	Konstantin Petrukhin
		Group Art Unit	1646
		Examiner Name	
Sheet 4	of 4	Attorney Docket Number	20430P

NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No.	Include name of the author, title, date, page(s), volume-issue number(s) and place of publication.
AJ	EE	Jameson and Wolf, "The antigenic index: a novel algorithm for predicting antigenic determinants", CABIOS (Computer Applications in the Biosciences), 4:181-186 (1988)
	FF	Kohler and Milstein, "Continuous cultures of fused cells secreting antibody of predefined specificity", Nature, 256:495-497 (1975)
	GG	Thomas and Capecchi, "Site-Directed Mutagenesis by Gene Targeting in Mouse Embryo-Derived Stem Cells", Cell, 51:503-512 (November 1987)
	HH	Frohman and Martin, "Cut, Paste, and Save: New Approaches to Altering Specific Genes in Mice", Cell, 56:145-147 (January 1989)
	II	Mario R. Capecchi, "The New Mouse Genetics: Altering the Genome by Gene Targeting", Trends in Genetics, 5:70-76 (March 1989)
	JJ	Baribault and Kemler, "Embryonic Stem Cell Culture and Gene Targeting in Transgenic Mice", Mol. Biol. Med. 6:481-492 (1989)
	KK	Lin et al., "Recombination in mouse L cells between DNA introduced into cells and homologous chromosomal sequences", Proc. Natl. Acad. Sci. USA, 82:1391-1395 (March 1985)
	LL	Smithies et al., "Insertion of DNA sequences into the human chromosomal β -globin locus by homologous recombination", Nature, 317:230-234 (September 1985)
	MM	Thomas et al., "High Frequency Targeting of Genes to Specific Sites in the Mammalian Genome", Cell, 44:419-428 (February 1986)
	NN	Kim and Smithies, "Recombinant fragment assay for gene targeting based on the polymerase chain reaction", Nucleic Acids Research, IRL Press Ltd., Oxford, England, 16:8887-8903 (1988)
	OO	Kim et al., "Problems encountered in detecting a targeted gene by the polymerase chain reaction", Gene, 103:227-233 (1991)
	PP	Sedivy and Sharp, "Positive genetic selection for gene disruption in mammalian cells by homologous recombination", Proc. Natl. Acad. Sci. USA, 86:227-231 (January 1989)
↓	QQ	Mansour et al., "Disruption of the proto-oncogene <i>int-2</i> in mouse embryo-derived stem cells: a general strategy for targeting mutations to non-selectable genes", Nature, 336:348-352 (November 1988)
AJ	RR	Mario R. Capecchi, "Altering the Genome by Homologous Recombination", Science, 244:1288-1292 (June 1989)

Examiner Signature	/Amy Juedes/	Date Considered	08/09/2006
--------------------	--------------	-----------------	------------

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

SEND TO: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.

Computer generated form "IDS Form" (IDS Folder), Merck & Co., Inc., 7/12/2005